

AMENDMENTS TO THE CLAIMS

Claims 1-33 (CANCELLED).

34. (CURRENTLY AMENDED) A networked health-monitoring system, comprising:

(a) a plurality of remote patient sites, each site including

(i) at least one display,

5 (ii) a ~~data management~~ hand held unit configured to facilitate collection of patient health-related data,

(iii) a memory within said hand held unit, and

(iv) ~~stored~~ program instructions stored in said memory that, when executed at the remote patient site, generate health-monitoring related information on the display and collect said  
10 patient health-related data, wherein said program instructions allow said hand held unit to update said information presented on the display;

(b) at least one remotely located computing facility  
15 including at least one central server connectable for communication with the data management units at the patient sites, the central server configured to (i) transmit the stored program instructions to each of the plurality of remote patient sites and (i) receive and store the patient health-related data from the ~~data management~~  
20 hand held unit at the remote patient sites; and

20 (c) at least one health care professional computer remotely located from and configured for signal communication with the central server,

25 wherein the central server can generate a report based on the patient health-related data collected at the remote patient site and the report can be viewed at the at least one health care professional computer and wherein at least one message can be sent from the health care professional computer to the remote patient sites through the central server.

35. (PREVIOUSLY PRESENTED) The system of claim 121, further comprising at least one health-monitoring device configured

(a) to monitor at least one patient health condition at least one remote patient site; and

5 (b) to communicate data related to the monitored condition to the central server.

36. (PREVIOUSLY PRESENTED) The system of claim 35, wherein the data management unit facilitates collection of health-related data by receiving data related to the monitored condition from at least one of the health-monitoring devices.

37. (PREVIOUSLY PRESENTED) The system of claim 36, wherein at least one health-monitoring device includes one or more of the set consisting of

- (a) a blood glucose monitor;
- (b) a peak flow meter;
- (c) a blood pressure monitor;
- (d) pulse monitor; and
- (e) a body temperature monitor.

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38. (PREVIOUSLY PRESENTED) The system of claim 66, wherein the data management unit is configured to facilitate collection of health-related data through a patient at the respective remote patient site using buttons, keys or switches.

39. (PREVIOUSLY PRESENTED) The system of claim 35, wherein the data management unit is physically separate from the display.

40. (PREVIOUSLY PRESENTED) The system of claim 35, wherein the display forms a part of at least one of the health-monitoring devices.

41. (PREVIOUSLY PRESENTED) The system of claim 121, wherein the display is in a handheld device.

42. (PREVIOUSLY PRESENTED) The system of claim 41, wherein the handheld device is capable of displaying pictorial health-monitoring related information.

43. (PREVIOUSLY PRESENTED) The system of claim 40, wherein the memory is a program cartridge.

44. (PREVIOUSLY PRESENTED) The system of claim 41, wherein the handheld device is capable of displaying animated health-monitoring related information.

45. (PREVIOUSLY PRESENTED) The system of claim 121, wherein at least one of the remote sites further includes at least one personal computer and wherein the data management unit at that site is connectable to the computer.

46. (PREVIOUSLY PRESENTED) The system of claim 121, wherein the information received by the health care professional can be used to generate at least one report that is standardized.

47. (PREVIOUSLY PRESENTED) The system of claim 76, wherein the system is configured to allow a health care professional to select which of a plurality of standardized reports is received.

48. (PREVIOUSLY PRESENTED) The system of claim 76, wherein the report includes at least one of graphs and icons.

49. (PREVIOUSLY PRESENTED) The system of claim 76, wherein the report can be generated periodically.

50. (PREVIOUSLY PRESENTED) The system of claim 48, wherein the server can generate the report.

51. (PREVIOUSLY PRESENTED) The system of claim 76, wherein the system is configured to cause the presentation of at least one report on the display at a remote patient site.

52. (PREVIOUSLY PRESENTED) The system of claim 76, wherein the report includes displayed formatted statistical information.

53. (PREVIOUSLY PRESENTED) The system of claim 52, wherein the statistical information can be displayed on a display at a remote patient site.

54. (PREVIOUSLY PRESENTED) The system of claim 76, wherein the report includes information data for a period of time.

55. (PREVIOUSLY PRESENTED) The system of claim 121, wherein the system is configured to transmit a message for display on at least one remote patient site display.

56. (PREVIOUSLY PRESENTED) The system of claim 71, wherein the message includes step-by-step instructions.

57. (PREVIOUSLY PRESENTED) The system of claim 71, wherein the message includes results of a test.

58. (PREVIOUSLY PRESENTED) The system of claim 71, wherein the message includes a diagnostic indication related to whether a test has proceeded in a normal fashion.

59. (PREVIOUSLY PRESENTED) The system of claim 71, wherein the message is a multi-line message.

60. (PREVIOUSLY PRESENTED) The system of claim 71, wherein the message is educational or motivational.

61. (PREVIOUSLY PRESENTED) The system of claim 71, wherein the message is from the health care professional computer.

62. (PREVIOUSLY PRESENTED) The system of claim 61, wherein the system is configured to cause the message to be transmitted to a specific patient at a patient site.

63. (PREVIOUSLY PRESENTED) The system of claim 62, wherein the system is configured to cause the message to be transmitted automatically to the patient.

64. (PREVIOUSLY PRESENTED) The system of claim 62, wherein the system enables the patient to choose when to receive the message.

65. (PREVIOUSLY PRESENTED) The system of claim 62, wherein the message is stored before being transmitted to the patient.

66. (PREVIOUSLY PRESENTED) The system of claim 71, wherein the system is configured to allow a patient at a respective one of said remote patient sites to control the display of health-monitoring related information on the at least one display at the respective remote patient site using at least one menu.

67. (PREVIOUSLY PRESENTED) The system of claim 66, wherein the menu allows the patient to select any of the operational modes from the set consisting of:

(a) a display mode for displaying relevant information;

5 (b) an input mode for providing information; and

(c) a communications mode for establishing a link with the central server.

68. (PREVIOUSLY PRESENTED) The system of claim 66, wherein the menu allows a patient to select a monitoring mode in which at least one of the health-monitoring devices is used.

69. (PREVIOUSLY PRESENTED) The system of claim 66, wherein the menu allows a patient to display at least one message or instruction from a health care professional.

70. (PREVIOUSLY PRESENTED) The system of claim 69, wherein the system is configured to enable the patient to respond to information on the display by using a cursor or other indicator positioned at a selected item.

71. (CURRENTLY AMENDED) A networked health-monitoring system comprising:

(a) a plurality of remote patient sites, each site including



(i) at least one display,

5           (ii) a ~~data management~~ hand held unit configured to facilitate collection of patient health-related data,

(iii) a memory within said hand held unit, and

(iv) ~~stored~~ program instructions stored in said memory that, when executed at each remote patient site, generate health-  
10 monitoring related information on the display and collect said patient health-related data, wherein said program instructions allow said hand held unit to update said information presented on the display;

(b) at least one remotely located computing facility  
15 including at least one central server connectable for communication with the data management units at the patient sites; and

(c) at least one health care professional computer configured for signal communication with the central server to receive information based on the patient health-related data collected at  
20 the remote patient sites,

wherein hardware and software of the central server (i) transmit the stored program instructions to each of the plurality of remote patient sites and (ii) can communicate with the data management units to enable program instructions to be provided from  
25 the server for reconfiguring programs stored at each remote patient site; and

wherein the system is configured to transmit a message for display on at least one remote patient site display.

72. (PREVIOUSLY PRESENTED) The system of claim 121, wherein the collected patient health-related data includes indications of user-experienced symptoms.

73. (PREVIOUSLY PRESENTED) The system of claim 121, wherein the collected patient health-related data includes quantitative measurements.

74. (PREVIOUSLY PRESENTED) The system of claim 73, wherein the collected patient health-related data includes medication data.

75. (PREVIOUSLY PRESENTED) The system of claim 73, wherein the collected patient health-related data includes time data.

76. (CURRENTLY AMENDED) A networked health-monitoring system comprising:

- (a) a plurality of remote patient sites, each site including
  - (i) at least one display,
  - (ii) a plurality of buttons keys or switches,

(iii) a ~~data management~~ hand held unit configured to facilitate collection of patient health-related data,

(iv) a memory within said hand held unit, and

(v) ~~stored~~ program instructions stored in said memory that, when executed at the remote patient site, generate health-monitoring related information on the display and collect said patient health-related data, wherein said program instructions allow said hand held unit to update said information presented on the display;

(b) at least one remotely located computing facility including at least one central server connectable for communication with the data management units at the patient sites, wherein the central server can (i) transmit the stored program instructions to each of the plurality of remote patient sites and (ii) generate at least one report; and

(c) at least one health care professional computer configured for signal communication with the central server to receive at least one report based on the patient health-related data collected at the remote patient sites,

wherein the at least one report is standardized, and  
wherein hardware and software of the central server communicates the report to the health care professional computer after an authorization code is transmitted to the server to

identify an associated health care professional as an authorized  
30 user, and

wherein additional program instructions stored in a program  
cartridge are used for reconfiguring the stored program  
instructions.

77. (CURRENTLY AMENDED) A method of collecting and  
processing patient health-related data, comprising:

(a) at a plurality of remote patient sites,

(i) using stored program instructions to generate health-  
5 monitoring related information on at least one display,

(ii) facilitating collection of said patient health-  
related data using a ~~data management~~ hand held unit, and

(iii) using ~~stored~~ program instructions to that, when  
executed at the remote patient site, collect patient-health related  
10 data, wherein said program instructions allow said hand held unit  
to update said information presented on the display;

(b) connecting at least one remotely located computing  
facility including at least one central server for communication  
with the data management unit at the patient sites; and

15 (c) providing at least one report to at least one health care  
professional computer, remotely located from and in signal  
communication with the central server, the report being based on

the patient health-related data collected at the remote patient sites, and

20            wherein hardware and software of the central server transmits the stored program instructions to the remote patient sites and allows at least one message sent from the health care professional computer to be sent to at least one of the remote patient sites.

78. (PREVIOUSLY PRESENTED) The method of claim 122, further comprising using at least one health-monitoring device to:

(i) monitor at least one patient health condition at at least one remote patient site; and

5            (ii) communicate data related to the monitored condition to the central server.

79. (PREVIOUSLY PRESENTED) The method of claim 78, wherein the data management unit facilitates collection of health-related data by receiving data related to the monitored condition from at least one of the health-monitoring devices.

80. (PREVIOUSLY PRESENTED) The method of claim 79, wherein at least one health-monitoring device includes one or more of:

(a) a blood glucose monitor;

5            (b) a peak flow meter;

- (c) a blood pressure monitor;
- (d) a pulse monitor; and
- (e) a body temperature monitor.

81. (PREVIOUSLY PRESENTED) The method of claim 109, wherein the data management unit facilitates collection of health-related data entered by a patient at the remote patient site using buttons, keys or switches.

82. (PREVIOUSLY PRESENTED) The method of claim 78, wherein the data management unit is physically separate from the display.

83. (PREVIOUSLY PRESENTED) The method of claim 78, wherein the display forms a part of at least one of the health-monitoring devices.

84. (PREVIOUSLY PRESENTED) The method of claim 122, wherein the display is in a handheld device.

85. (PREVIOUSLY PRESENTED) The method of claim 84, wherein the memory is a program cartridge.

86. (PREVIOUSLY PRESENTED) The method of claim 84, further comprising displaying pictorial health-monitoring related information on the handheld device.

87. (PREVIOUSLY PRESENTED) The method of claim 44, further comprising displaying animated health-monitoring related information on the handheld device.

88. (PREVIOUSLY PRESENTED) The method of claim 122, further comprising connecting at least one personal computer to the data management unit of at least one remote site.

89. (PREVIOUSLY PRESENTED) The method of claim 77, wherein the information received by the health care professional computer can be used to generate at least one report that is standardized.

90. (PREVIOUSLY PRESENTED) The method of claim 119, wherein a health care professional selects which of a plurality of standardized reports is received.

91. (PREVIOUSLY PRESENTED) The method of claim 119, wherein the report includes at least one of graphs and icons.

92. (PREVIOUSLY PRESENTED) The method of claim 119, wherein the report is generated periodically.

93. (PREVIOUSLY PRESENTED) The method of claim 89, wherein the server generates the report.

94. (PREVIOUSLY PRESENTED) The method of claim 119, further comprising presenting at least one report on a display at a remote patient site.

95. (PREVIOUSLY PRESENTED) The method of claim 119, wherein the report includes statistical information.

96. (PREVIOUSLY PRESENTED) The method of claim 119, further comprising displaying the statistical information on a display at a remote patient site.

97. (PREVIOUSLY PRESENTED) The method of claim 119, wherein the report includes information data for a period of time.

98. (PREVIOUSLY PRESENTED) The method of claim 122, further comprising:

transmitting at least one message to at least one remote patient site; and



displaying the at least one message on at least one remote patient site display.

99. (PREVIOUSLY PRESENTED) The method of claim 119, wherein the message includes step-by-step instructions.

100. (PREVIOUSLY PRESENTED) The method of claim 119, wherein the message includes results of a test.

101. (PREVIOUSLY PRESENTED) The method of claim 100, wherein the message includes an indication related to whether a diagnostic test has proceeded in a normal fashion.

102. (PREVIOUSLY PRESENTED) The method of claim, 119, wherein the message is a multi-line message.

103. (PREVIOUSLY PRESENTED) The method of claim 119, wherein the message is educational or motivational.

104. (PREVIOUSLY PRESENTED) The method of claim 119, wherein the message is from the health care professional computer.

105. (PREVIOUSLY PRESENTED) The method of claim 119, wherein the message is transmitted to a specific patient site.

106. (PREVIOUSLY PRESENTED) The method of claim 105, wherein the message is transmitted automatically to the patient.

107. (PREVIOUSLY PRESENTED) The method of claim 105, wherein the patient chooses when to receive the message.

108. (PREVIOUSLY PRESENTED) The method of claim 105, wherein the message is stored before being transmitted to the patient.

109. (PREVIOUSLY PRESENTED) The method of claim 114, wherein a patient at a patient site controls the display of health-monitoring related information using at least one menu.

110. (PREVIOUSLY PRESENTED) The method of claim 109, wherein the menu allows a patient to select any of the operational modes from the set consisting of:

(a) a display mode for displaying relevant information;

5 (b) an input mode for providing information; and

(c) a communications mode for establishing a link with the central server.

111. (PREVIOUSLY PRESENTED) The method of claim 109, wherein the menu allows a patient to select a monitoring mode in which at least one of the health-monitoring devices is used.

112. (PREVIOUSLY PRESENTED) The method of claim 109, wherein the menu allows a patient to display at least one message or instructions from a health care professional.

113. (PREVIOUSLY PRESENTED) The method of claim 112, wherein the patient responds to information on the display by using a cursor or other indicator positioned at a selected item.

114. (CURRENTLY AMENDED) A method of collecting and processing patient health-related data comprising:

(a) at a plurality of remote patient sites,

(i) using stored program instructions to generate health-monitoring related information on at least one display,

(ii) facilitating collection of patient health-related data using a ~~data management~~ hand held unit, and

(iii) using stored program instructions ~~to that, when executed at the remote patient site,~~ collect patient-health related data, wherein said program instructions allow said hand held unit to update said information presented on the display;

(b) connecting at least one remotely located computing facility including at least one central server for communication with the data management unit at the patient sites;

15       (c) providing information based on the patient health-related data collected at the remote patient sites to at least one health care professional computer, remotely located from and in signal communication with the central server;

20       (d) providing said stored program instructions from the server to the remote patient sites; and

      (e) storing in a memory and executing the stored program instructions at the remote patient sites.

115. (PREVIOUSLY PRESENTED) The method of claim 122 wherein the collected patient health-related data includes indications of user-experienced symptoms.

116. (PREVIOUSLY PRESENTED) The method of claim 122, wherein the collected patient health-related data includes quantitative measurements.

117. (PREVIOUSLY PRESENTED) The method of claim 122, wherein the collected patient health-related data includes medication data.

118. (PREVIOUSLY PRESENTED) The system of claim 122, wherein the collected patient health-related data includes time data.

119. (CURRENTLY AMENDED) A method of collecting and processing patient health-related data comprising:

(a) a plurality of remote patient sites,

(i) using stored program instructions to generate health-monitoring related information on at least one display,

(ii) facilitating collection of patient health-related data using a ~~data management~~ hand held unit, and

(iii) using ~~stored~~ program instructions stored in a memory to collect patient-health related data, wherein said program instructions allow said hand held unit to update said information presented on the display;

(b) connecting at least one remotely located computing facility including at least one central server for communication with the data management unit at the patient sites;

(c) providing at least one report to at least one health care professional computer, remotely located from and in signal communication with the central server, the report being based on the patient health-related data collected at the remote patient sites,

20            wherein hardware and software of the central server transmits  
the stored program instructions from the central server to the  
remote patient sites and allows at least one message from a health  
care professional computer to be sent to the remote patient sites,  
and

25            (d) receiving the report after transmitting an authorization  
code to the server, wherein the authorization code identifies an  
associated health care professional as an authorized user.

120. (CURRENTLY AMENDED) A system for collecting and  
processing patient health-related data, said system comprising a  
plurality of remote patient sites, each site including:

5            (i) means for using ~~stored~~ program instructions to  
generate health-monitoring related information on at least one  
display of a hand held unit and collect health-related data,  
wherein said program instructions allow said hand held unit to  
update said information presented on the display;

10            (ii) means for facilitating collection of said patient  
health-related data using a ~~data management~~ hand held unit;

            (iii) means for connecting at least one remotely located  
computing facility including at least one central server for  
communication with the data management units at the patient sites,  
wherein the stored program instructions are transmitted from the at

15 least one central server to the ~~data management~~ hand held units at  
the patient sites; and

(iv) means for providing at least one report to at least  
one health care professional computer, remotely located from and in  
signal communication with the central server, the report being  
20 based on the patient health-related data collected at the remote  
patient sites,

wherein the report can be viewed at the at least one health  
care professional computer and at least one message sent from the  
health care professional computer to the remote patient sites  
25 through the central server.

121. (CURRENTLY AMENDED) A networked health-monitoring  
system, comprising:

- (a) a plurality of remote patient sites, each site including
  - (i) at least one display,
  - 5 (ii) a plurality of buttons, keys or switches,
  - (iii) a ~~data management~~ hand held unit configured to  
facilitate collection of patient health-related data using one or  
more of the plurality of buttons, keys or switches,
  - (iv) a memory within said hand held unit, and
  - 10 (v) ~~stored~~ program instructions stored in said memory  
that, when executed, generate health-monitoring related information  
on the display and collect the patient health-related data;

(b) at least one remotely located computing facility including at least one central server connectable for communication with the data management units at the patient sites, wherein the at least one central server transmits the stored program instructions to the remote patient sites; and

(c) at least one health care professional computer remotely located from and configured for signal communication with the central server to receive information based on the patient health-related data collected at the remote patient sites and to send educational or motivational messages to the patient,

wherein hardware and software of the central server automatically communicates with the data management units and the at least one health care professional computer; and

wherein the system is configured to enable a patient at a remote patient site to respond to health-monitoring related information generated on the display by using a cursor or other indicator positioned at an item on the display.

122. (CURRENTLY AMENDED) A method of collecting and processing patient health-related data, comprising:

(a) a plurality of remote patient sites,

(i) using stored program instructions to generate health-monitoring related information on at least one display,



(ii) facilitating collection of patient health-related data using a ~~data management~~ hand held unit, and

(iii) using ~~stored~~ program instructions stored in a memory to collect the patient-health related data, wherein said program instructions allow said hand held unit to update said information presented on the display;

(b) connecting at least one remotely located computing facility including at least one central server for communication with the data management unit at the patient sites, wherein the at least one central server transmits the stored program instructions to the remote patient sites;

(c) providing information, based on the patient health-related data collected at the remote patient sites, to at least one health care professional computer remotely located from the central server;

(d) enabling a patient at a remote patient site to respond to health-monitoring related information generated on the display by using a cursor or other indicator positioned at an item on the display; and

(e) sending educational or motivational messages to the remote patient sites.

123. (CURRENTLY AMENDED) A networked health-monitoring system, comprising:

(a) a plurality of remote patient sites, each site including

(i) at least one display,

5 (ii) a ~~data management~~ hand held unit configured to facilitate collection of patient health-related data,

(iii) a memory within said hand held unit, and

(iv) ~~stored~~ program instructions stored in said memory that, when executed, generate health-monitoring related information  
10 on the display and collect said patient health-related data, wherein said program instructions allow said hand held unit to update said information presented on the display;

(b) at least one remotely located computing facility including at least one central server connectable for communication  
15 with the data management units at the patient sites, wherein said at least one central server transmits said stored program instructions to said remote patient sites; and

(c) at least one health care professional computer remotely located from and configured for signal communication with the  
20 central server to receive at least one report based on the patient health-related data collected at the remote patient sites,

wherein hardware and software of the central server

(i) are configured to receive and store health-related data from a remote patient site, and to generate a report that can  
25 be viewed or retrieved by an authorized user from the remotely located health care professional computer,

(ii) can communicate with the data management units to enable program instructions to be provided from the server for reconfiguring programs stored at a remote patient site, and

30 (iii) can send educational or motivational messages to the patient, and

wherein the central server receives and stores messages from the remotely located health care professional computer and transmits them to the data management unit for presentation to the  
35 patient display.

124. (CURRENTLY AMENDED) A method of collecting and processing patient health-related data, comprising:

(a) at a plurality of remote patient sites,

(i) using stored program instructions to generate health-  
5 monitoring related information on at least one display,

(ii) facilitating collection of patient health-related data using a ~~data management~~ hand held unit, and

(iii) using ~~stored~~ program instructions stored in a memory to collect said patient-health related data, wherein said  
10 program instructions allow said hand held unit to update said  
information presented on the display;

(b) connecting at least one remotely located computing facility including at least one central server for communication with the data management unit at the patient sites, wherein the

15     central server transmits the stored program instruction to the  
remote patient sites and generates at least one report; and

       (c)   providing the at least one report to at least one health  
care professional computer, remotely located from and in signal  
communication with the central server, the report being based on  
20   the patient health-related data collected at the remote patient  
sites, wherein hardware and software of the central server

       (i)   are configured to receive and store health-related  
data from a remote patient site, and to generate a report that can  
be viewed or retrieved by an authorized user from the remotely  
25   located health care professional computer,

       (ii)   can communicate with the data management units to  
enable program instructions to be provided from the server for  
reconfiguring programs stored at a remote patient site, and

       (iii)  can send educational or motivational messages to  
30   the patient, and

       wherein the central server receives and stores messages from  
the remotely located health care professional computer and  
transmits them to the data management unit for presentation to the  
patient display.

125. (PREVIOUSLY PRESENTED) The system of claim 71,  
wherein the program instructions for reconfiguring programs effect  
changes in a treatment regimen, effect changes in analyses or

reports generated by the by the system, or effect changes in  
5 graphical presentations of the system.

126. (PREVIOUSLY PRESENTED) The system of claim 76,  
wherein the program instructions for reconfiguring programs effect  
changes in a treatment regimen, effect changes in analyses or  
reports generated by the by the system, or effect changes in  
5 graphical presentations of the system.

127. (PREVIOUSLY PRESENTED) The method of claim 114,  
wherein the program instructions for reconfiguring programs effect  
changes in a treatment regimen, effect changes in analyses or  
reports generated by the by the system, or effect changes in  
5 graphical presentations of the system.

128. (PREVIOUSLY PRESENTED) The system of claim 34,  
wherein the patient health-related data includes raw data.

129. (PREVIOUSLY PRESENTED) The system of claim 128,  
wherein raw data includes test results and related data.

130. (PREVIOUSLY PRESENTED) The system of claim 128,  
wherein the patient health-related data includes symptomatic  
information.

131. (PREVIOUSLY PRESENTED) The system of claim 34, wherein the patient health-related data includes test results and related data.

132. (PREVIOUSLY PRESENTED) The system of claim 131, wherein the test results and related data are stored in the memory.

133. (PREVIOUSLY PRESENTED) The system of claim 132, wherein the memory is in the data management unit.

134. (PREVIOUSLY PRESENTED) The system of claim 76, wherein the additional program instructions are communicated to the remote patient site and the remotely located computing facility.

135. (PREVIOUSLY PRESENTED) The system of claim 134, wherein the additional program instructions are communicated to the program cartridge through the central server.

136. (PREVIOUSLY PRESENTED) The method of claim 114, wherein the programs provided from the server to a remote patient site can be stored and executed at the remote patient site.

137. (PREVIOUSLY PRESENTED) The method of claim 136, wherein the programs provided from the server to a remote patient

site reconfigure existing programs stored at the remote patient site.

138. (PREVIOUSLY PRESENTED) The system of claim 76, wherein the reconfiguring program instructions are stored in the program cartridge and the program cartridge can be returned to the remote patient site.